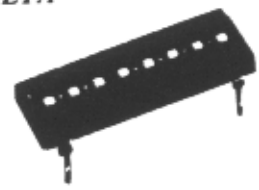
DIP SWITCH

ETD/ETA/ETS SERIES

TRI-STATE TYPE

ETA



PATENT NO: 5065276 (U.S.A.)
51892
47618
4856189 (U.S.A.)

■ FEATURES

- With three states (1, open, 0) setting function, especially suitable for encoding/decoding of tri-state encoder/decoder integrated circuit to obtain more security codes than traditional two-state (1,0) operation. For instance, 9 bits with tri-state gets 19,683 (3^9) codes while two-state gets 512 (2^9) codes, gains 38 times in former!
- Bottom sealed standard to ensure free of flux immersion during wave soldering.
- All materials are UL 94V-0 grade fire retardant plastics.
- Gold plated contact to ensure low contact resistance and tin plated terminal to prevent contamination during soldering.
- Twin contact designed to ensure stable contact.
- Ideal for coding of tele-communication, transceiving, remote control and burglar alarm systems which use integrated circuits with tri-state coding system.

■ SPECIFICATIONS

1 ELECTRICAL

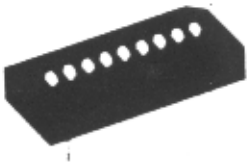
- Contact Rating
  - Switching: 25mA, 24VDC
  - Non-Swtiching: 100mA, 50VDC
- Contact Resistance
  - Initial: 50mΩ Max.
  - After life test: 100mΩ Max.
- Insulation Resistance: 1,000MΩ min. at 100VDC
- Dielectric Strength: 500VDC min. for 1 minute
- Capacitance between adjacent switches 5pF Max.

2 MECHANICAL AND ENVIRONMENTAL

- Temperature Rating
  - Operating: −25°C to +70°C
  - Storage: −40°C to +85°C
- Operation force: 800g Max.
- Operation Life: 2,000 Operations
- Humidity: 95% RH, 40°C for 96 Hrs.
- Vibration: Per MIL-STD-202F, Method 204D
- Solderability: After flux 230 ± 5°C for 5 ± 0.5 second 95% coverage
- Soldering Heat: For ETA, ETD Type
  260 ± 5°C for 5 ± 1 second
  For ETS Type
  260 ± 5°C for 10 ± 1 second
  280 ± 5°C for 2 ± 0.5 second
  (Resistance to IR Reflow Soldering Heat)

■ DIMENSIONS AND CIRCUITRY

ETD



DIMENSION A *Unit: mm (inch)*

Positions	4	5	7	8	9	10
A	15.30 (0.602)	17.84 (0.702)	22.92 (0.902)	25.46 (1.002)	28.00 (1.102)	30.54 (1.202)